

# User Manual

## CMOS IP CAMERA





## WARNINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

## CAUTION

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		

## COPYRIGHT

THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

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## I. Preface

This IP camera is a CMOS IP Camera. It has the web server built in. User can view real-time video via IE browser. It supports MPEG-4 & MJPEG video compression which provides smooth and high video quality. The video can be stored in the SD card, and playback remotely.

With user friendly interface, it is an easy-to-use IP camera which is designed for security application.

## II. Product Specifications

- MPEG4/ MJPEG compression
- SD Card backup
- Supports Cell phone/PDA/3GPP
- Support Dual Streaming
- SDK for Software Integration
- Free Bundle 36 Channel Recording Software

### Specifications

Hardware	
CPU	ARM 9 ,32 bit RISC
RAM	32MB
ROM	8MB
Image sensor	1/4" CMOS
Sensitivity	1.0 lux @ F2.0
Lens Type	4.0 mm lens, F2.0
Power Consumption	DC 12V, 0.2A
Operating Temperature	-10°C ~ 45°C
Dimensions	131.2mm (Ø) x 94.3mm (H)
Weight	300g

Network		
Ethernet		10/ 100 Base-T
Network Protocol		HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, 3GPP, UPnP
System		
Video Resolution		640x480, 320x240, 160x120
Video adjust		Brightness, Contrast, Exposure, Sharpness, AGC Night Mode
Dual Streaming		Yes
Image snapshot		Yes
Full screen monitoring		Yes
Compression format		MPEG-4/ MJPEG
Video bitrate adjust		CBR, VBR
Motion Detection		Yes, 3 different areas
Triggered action		Mail, FTP, Save to SD card
Pre/ Post alarm		Yes, configurable
Security		Password protection
Firmware upgrade		HTTP mode, can be upgraded remotely
Simultaneous connection		Up to 10
SD card management		
Recording trigger		Motion Detection, IP check, Network Status (Wire connection only)
Video format		AVI, JPEG
Video playback		Yes
Delete files		Yes
Web browsing requirement		
OS		Windows 2000, XP, 2003, IE 6 or above
Hardware	Suggested	Intel-C 2.0G, RAM : 512MB, Graphic card : 64MB
	Minimum	Intel-C 1.6G, RAM : 256MB, Graphic card : 32MB

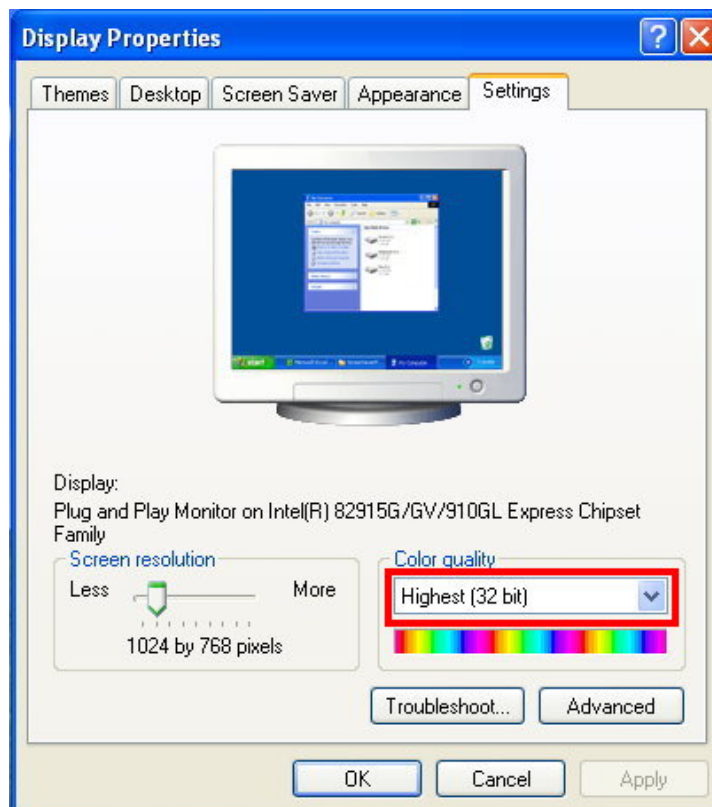
## III. Product Installation

### A. Monitor Setting

- i. Right-Click on the desktop. Select “ Properties”



- ii. Change color quality to highest (32bit).



## B. Hardware Installation

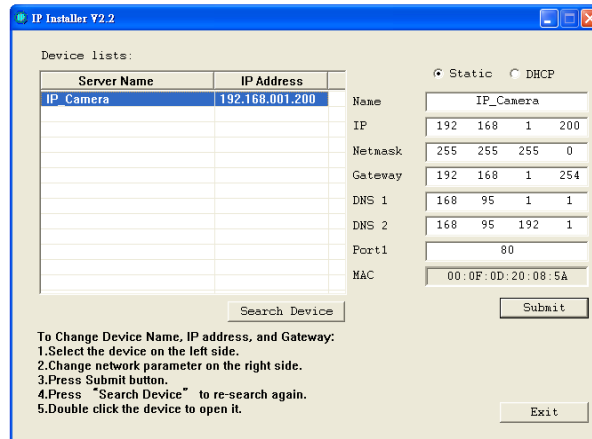
- i. Connect power adaptor
- ii. Connect Ethernet cable
- iii. Connect IP Camera to PC or Network
- iv. Set up the network configurations according to the network environment.  
For further explanation, please refer to chapter VI, “Network Configuration for IP CAMERA”.

## C. IP Assignment

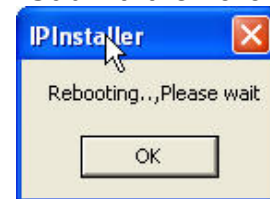
- i. Use the software, “IP Installer” to assign the IP address of IP CAMERA. The software is in the attached software CD.
- ii. IP Installer supports two languages:
  - a. IPInstallerCht.exe : Chinese version
  - b. IPInstallerEng.exe : English version
- iii. There are 3 kinds of IP configuration.
  - a. Fixed IP (Public IP or Virtual IP)
  - b. DHCP (Dynamic IP)
  - c. Dial-up (PPPoE)
- iv. Execute IP Installer
- v. For Windows XP SP2 user, the following message may show. Please click “Unblock”.



- vi. IP Installer configuration:



- vii. IP Installer will search all IP Cameras connected on Lan. The user can click "Search Device" to search again.
- viii. Click one of the IP Camera listed on the left side. The network configuration of this IP camera will show on the right side. You may change the "name" of the IP Camera to your preference (eg: Office, warehouse). Change the parameter and click "Submit" then click "OK". It



- will apply the change and reboot the Device.
- ix. Please make sure the subnet of PC IP address and IP CAM IP address are the same.

**The same Subnet:**

IP CAM IP address: 192.168.1.200

PC IP address: 192.168.1.100

**Different Subnets:**

IP CAM IP address: 192.168.2.200

PC IP address: 192.168.1.100

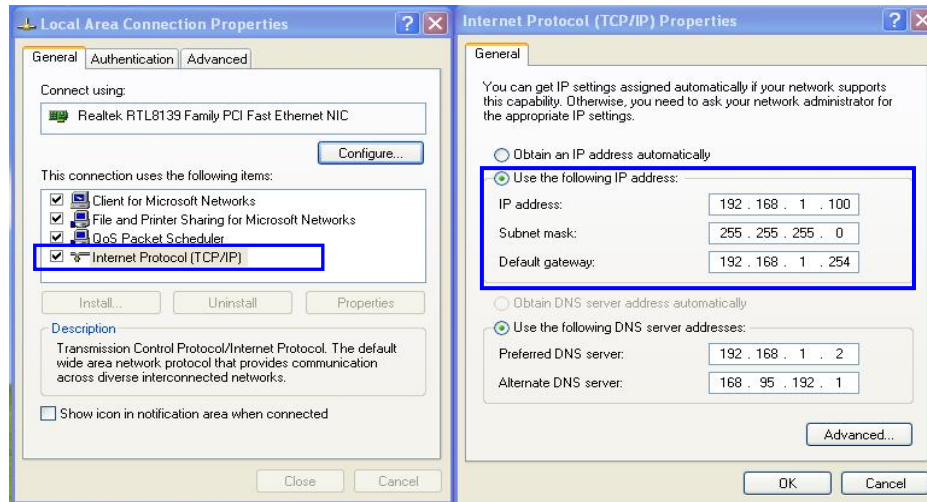
**To Change PC IP address:**

Control Panel→Network Connections→Local Area Connection

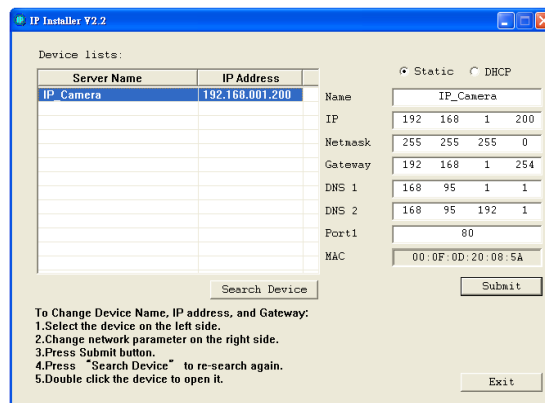
Properties→Internet Protocol (TCP/IP) →Properties

Please make sure your IP Camera and PC have the same Subnet. If not, please change IP Camera subnet or PC IP subnet accordingly.

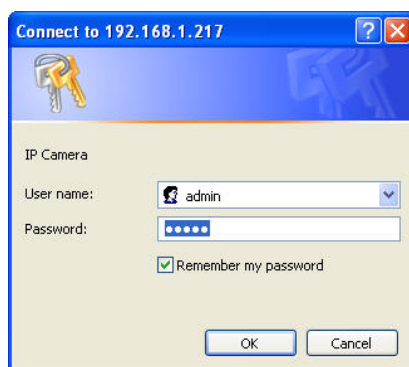




- x. A quick way to access remote monitoring is to left-click the mouse twice on a selected IP Camera listed on “Device list” of IP Installer. An IE browser will be opened.



- xi. Then, please key in the default “user name: admin” and “password: admin”.



## D. Install ActiveX control:

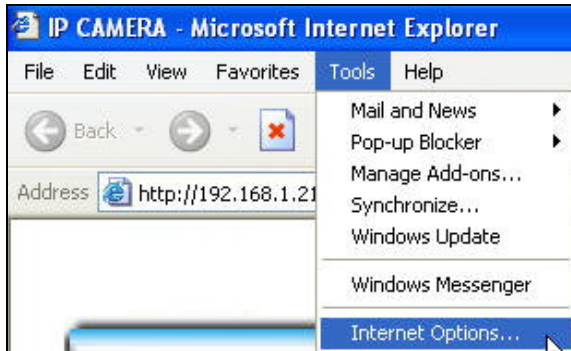
For the first time to view the camera video via IE, it will ask you to install the

ActiveX component.

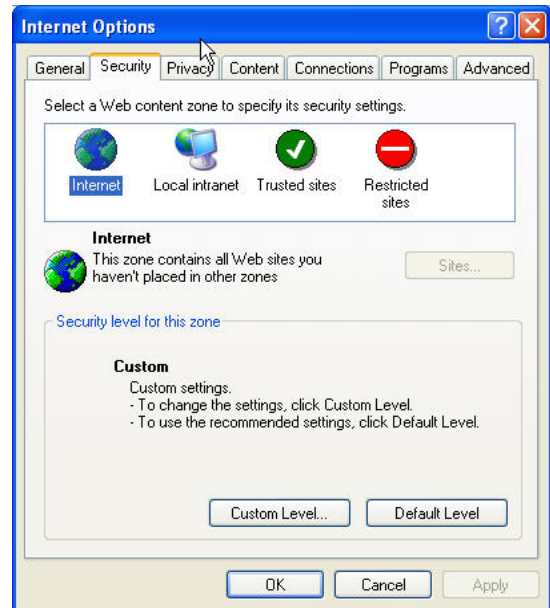
If the installation failed, please check the security setting for the IE browser.

- i. IE → Tools → Internet Options... → Security Tab → Custom Level... → Security Settings → Download unsigned ActiveX controls → Select “Enable” or Prompt.
- ii. IE → Tools → Internet Options... → Security Tab → Custom Level... → Initialize and script ActiveX controls not marked as safe → Select “Enable” or Prompt.

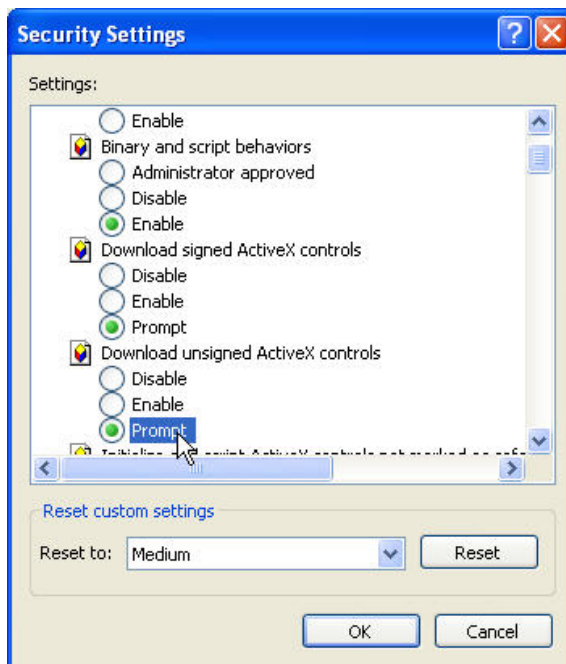
1



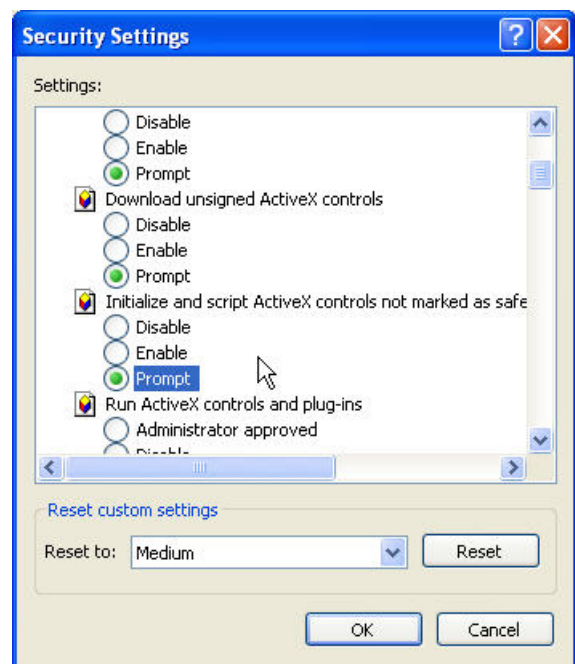
2



3

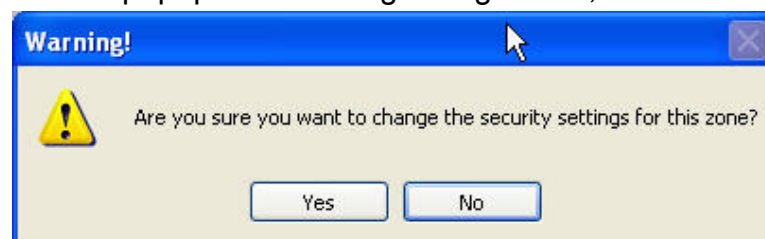


4



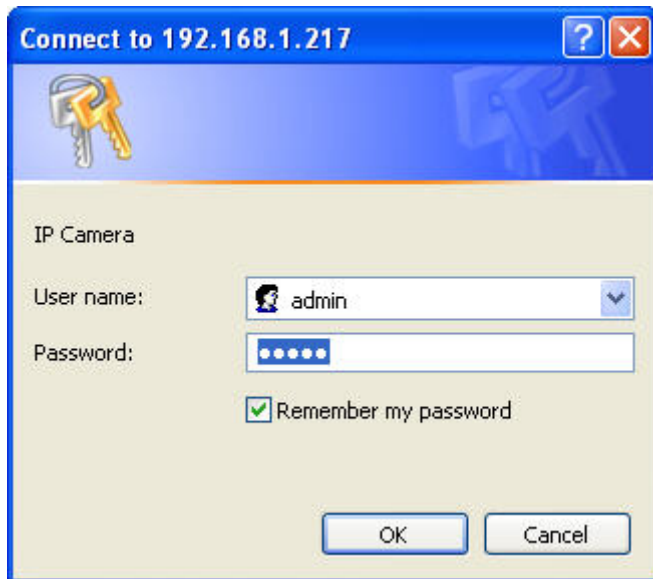
5

When popup the following dialogue box, click "Yes".

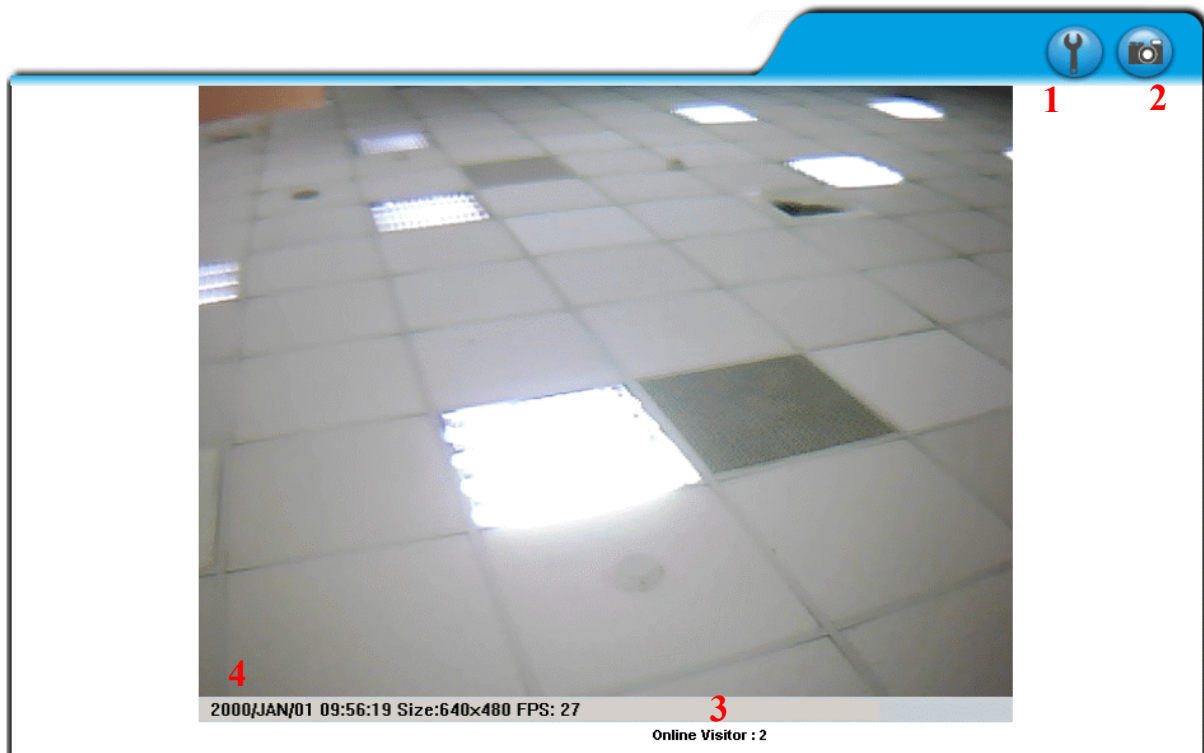




## IV. Live Video

Start an IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are “**admin**” and “**admin**”.



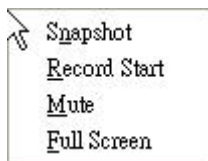
When connect to the IP CAMERA. The following program interface shows.



1.  : Get into the administration page
2.  : Video Snapshot
3. Shows how many people connect to this IP camera
4. Show system time, video resolution, and video refreshing rate

Double-click the video; it will change to full screen mode. Press “Esc” or double-click the video again, it will change back to normal mode.

Right-Click the mouse on the video, it will show a pop-up menu.



1. Snapshot : Save a JPEG picture
2. Record Start : Record the video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select “Record Stop”. The video format is AVI. Use Microsoft Media Player to play the recorded file.
3. Full Screen : Full-screen mode.

## V. IP CAMERA Configuration



Click



to back to the live video

page.



The screenshot shows the IP Camera Configuration web interface. On the left is a sidebar menu with icons and labels for different configuration sections: System (wrench icon), Network (globe icon), A/V Setting (camera icon), and Event (document icon). The main content area is titled 'System Information' and contains the following settings:

- Server Information**
  - Server Name:
  - MAC Address:
  - Language: ☒ English ☐ 繁體中文 ☐ 简体中文 ☐ France
- Time Setting**
  - Server Time: 2000/1/1 9:28:54 Time Zone: GMT+08:00
  - Date Format: ☒ yy/mm/dd ☐ mm/dd/yy ☐ dd/mm/yy
  - Time Zone:
  - ☐ NTP :
    - NTP Server :
  - ☐ Synchronize with PC's time
    - Date :
    - Time :
  - ☐ Manual
    - Date :
    - Time :
  - ☒ The date and time remain the same

An 'Apply' button is located at the bottom right of the configuration area.

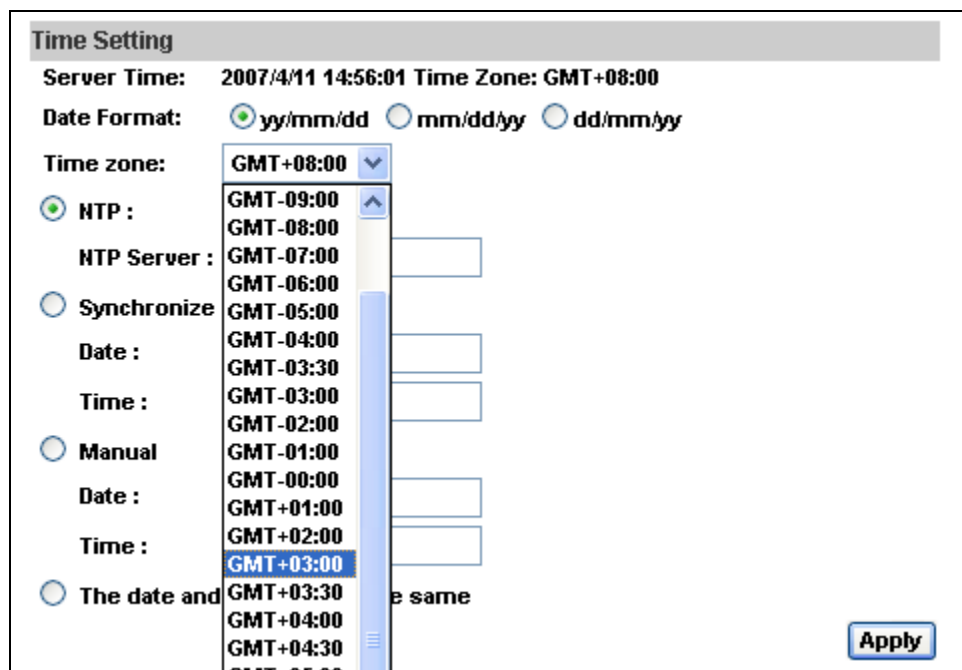
## A. System

### i. System Information :

- a. Server Information : Set up the camera name, select language, and set up the camera time.
  1. Server Name : This is the Camera name. This name will show on the IP Installer.
  2. Select language : There are English, Traditional Chinese, and Simplified Chinese to select. When change, it will show the following dialogue box for the confirmation of changing language.



- b. Server time setting : Select options to set up time - "NTP", "Synchronize with PC's time", "Manual", and "The date and time remain the same".



**Time Setting**

Server Time: 2007/4/11 14:56:01 Time Zone: GMT+08:00

Date Format: ☒ yy/mm/dd ☐ mm/dd/yy ☐ dd/mm/yy

Time zone: GMT+08:00

☒ NTP :  
NTP Server : GMT-07:00

☐ Synchronize  
Date : GMT-05:00  
Time : GMT-04:00

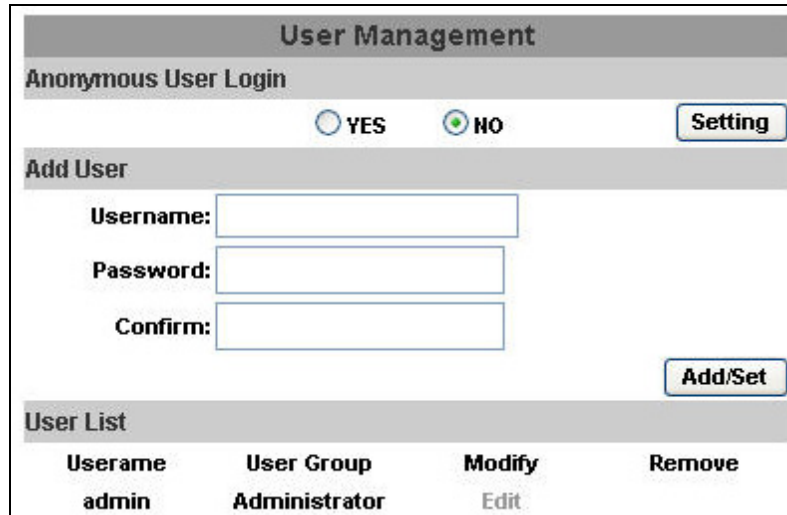
☐ Manual  
Date : GMT-03:30  
Time : GMT-03:00

☐ The date and time remain the same

Apply

ii 、 User Management

IP CAMERA supports three different users, administrator, general user, and anonymous user.



The screenshot shows the 'User Management' web interface. It has a title bar 'User Management'. Below it is a section 'Anonymous User Login' with two radio buttons: 'YES' (unselected) and 'NO' (selected). There is a 'Setting' button to the right. Below this is an 'Add User' section with three input fields: 'Username:', 'Password:', and 'Confirm:'. There is an 'Add/Set' button to the right of these fields. At the bottom is a 'User List' section with a table. The table has four columns: 'Username', 'User Group', 'Modify', and 'Remove'. The first row shows 'admin' as the username, 'Administrator' as the user group, 'Edit' as the modify option, and an empty space for the remove option.

Username	User Group	Modify	Remove
admin	Administrator	Edit	

a. Anonymous User Login :

Yes : Allow anonymous login

No : Need user name & password to access this IP camera

b. Add user :

Type the user name and password, then click "Add/Set".

**Note:** Allow guest to login as a Guest. Guest is only allowed to browse the page.

c. Click "edit" or "delete" to modify the user.



The screenshot shows a 'User Setup' dialog box from Microsoft Internet Explorer. It has a title bar 'User\_Setting - Microsoft Internet Explorer'. The dialog box has a title bar 'User Setup'. It contains three input fields: 'Username:' with the text 'admin', 'Password:', and 'Confirm:'. There is an 'OK' button to the right of the 'Confirm:' field.



iii 、 System update :

System Update	
Firmware Upgrade	
Firmware Version:	V3.2.20
New Firmware:	<input type="text"/> 瀏覽...
<input type="button" value="Upgrade"/>	
Reboot System	
<input type="button" value="Start"/>	
Factory Default	
<input type="button" value="Start"/>	
Setting Management	
Save As a File:	Right click the mouse button on <u>Setting Download</u> and then select Save As to save current system's setting in the PC.
New Setting File:	<input type="text"/> 瀏覽...
<input type="button" value="Upgrade"/>	

- a. To update the firmware online, click “Browse...” to select the firmware. Then click “Upgrade” to proceed.
- b. Reboot system : re-start the IP camera
- c. Factory default : delete all settings and restore defaults system.
- d. Setting Management : User may download the current setting to PC, or upgrade from previous saved setting.
  1. Setting download:  
Right-click the mouse button on Setting Download → Select “Save AS...” to save current IP CAM setting in PC → Select saving directory → Save
  2. Upgrade from previous setting  
Browse → search previous setting → open → upgrade → Setting update confirm → click [index.html](#). to return to main page

## B. Network

### i. IP Setting

IP Camera supports DHCP and static IP.

IP Setting	
<b>IP Assignment</b>	
<input type="radio"/> DHCP	
<input checked="" type="radio"/> Static	
IP Address:	<input type="text" value="192.168.1.200"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Gateway:	<input type="text" value="192.168.1.254"/>
DNS 0:	<input type="text" value="168.95.1.1"/>
DNS 1:	<input type="text" value="168.95.192.1"/>
<b>Port Assignment</b>	
Web Page Port:	<input type="text" value="80"/>
RTSP Port :	<input type="text" value="554"/>
RTP Start Port:	<input type="text" value="5000"/> [1024..10000]
RTP End port:	<input type="text" value="9000"/> [1025..10000]
<b>UPnP</b>	
UPnP:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
<input type="button" value="Apply"/>	

- a. DHCP : Using DHCP, IP Camera will get all the network parameters automatically.
- b. Static IP : Please type in IP address, subnet mask, gateway, and DNS manually.
- c. Port Assignment: user may need to assign different port to avoid conflict when setting up IP assignment.
  1. Web Page Port: setup web page connecting port and video transmitting port (Default: 80)
  2. RTSP Port: setup port for RTSP transmitting (Default: 554)
  3. RTP Start and End Port: in RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port (554). UDP connection uses RTP Start and End Port.

d. UPnP

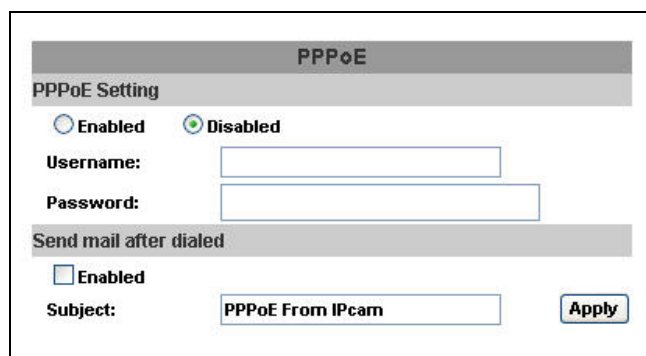
This IP camera supports UPnP, If this service is enabled on your computer, the camera will automatically be detected and a new icon will be added to “My Network Places.”

**Note:** UPnP must be enabled on your computer.

Please follow the procedure to activate UPnP

1. open the Control Panel from the Start Menu
2. select Add/Remove Programs
3. Select Add/Remove Windows Components and open Networking Services section
4. Click Details and select UPnP to setup the service
5. The IP device icon will be added to “MY Network Places”
6. User may double click the IP device icon to access IE browser

ii 、 PPPoE :



Select “Enabled” to use PPPoE.

Key-in Username and password for the ADSL connection.

Send mail after dialed : When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to “Mail and FTP” settings.

iii 、 DDNS :

IP camera supports DDNS (Dynamic DNS) service.

a. DynDNS :

DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider:

Hostname:

Username:

Password:

Schedule Update:  Minutes

State

Apply

Note:  
1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.  
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

1. Enable this service
2. Key-in the DynDNS server name, user name, and password.
3. Set up the IP Schedule update refreshing rate.
4. Click “Apply”
5. If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended.

b. Camddns service :

DDNS

DDNS Setting

☐ Enabled ☒ Disabled

Provider: ddns.camddns.com

Username:

Schedule Update: 1440 Minutes

State

Idle

Apply

Note:  
1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.  
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

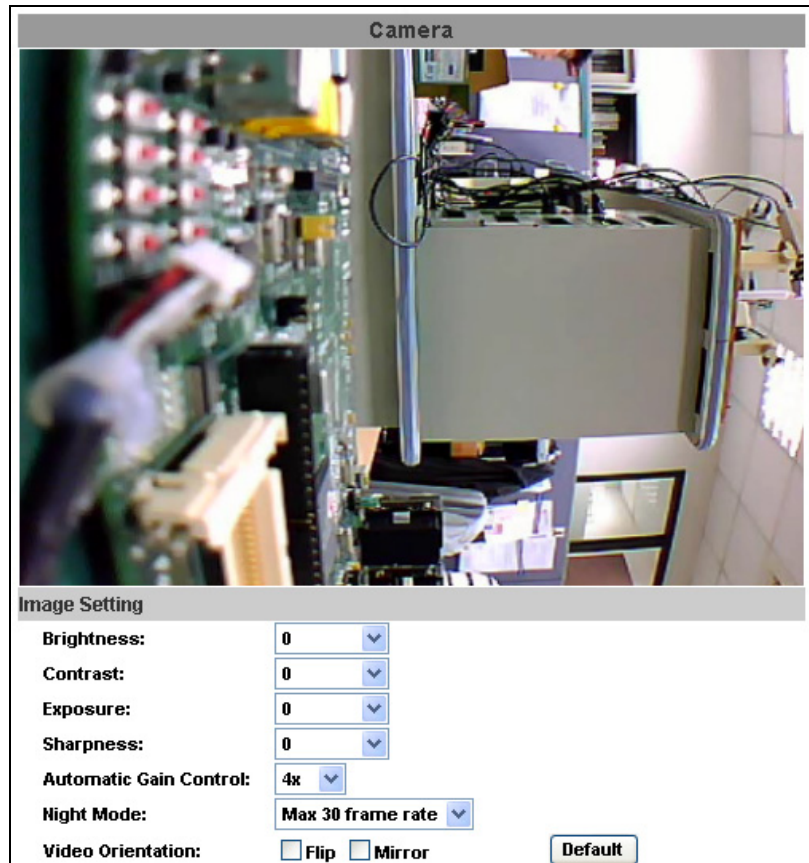
1. Please enable this service
2. Key-in user name.
3. IP Schedule update is default at 5 minutes
4. Click "Apply".

c. DDNS Status

1. Updating : Information update
2. Idle : Stop service
3. DDNS registration successful, can now log by  
<http://<username>.ddns.camddns.com> : Register successfully.
4. Update Failed, the name is already registered : The user name has already been used. Please change it.
5. Update Failed, please check your internet connection : Network connection failed.
6. Update Failed, please check the account information you provide : The server, user name, and password may be wrong.

## C. A/V Setting

### i、Image Setting



Adjust “Brightness”, “Contrast”, “Hue”, “Saturation” to get clear video. Automatic gain control, night mode, and video orientation are adjustable.

#### **Night mode:**

This function can be set at different Frame rate to increase night illumination. Lower the Frame rate set, slower the frame refresh rate, but better the night illumination.

Night mode will be activated automatically depending on lux illumination, if set at 15 frame rate, when night mode activated at night, the frame rate will not be more than 15FPS

### ii、Video Setting

User may select 2 streaming output simultaneously:

Streaming 1 Setting: Basic mode and Advanced mode

Streaming 2 Setting: Basic mode, Advanced mode, and 3GPP mode

(Max Video Frame Rate for both streaming combined is 30 FPS)

a. Streaming 1 Basic Mode :

Video Setting	
Streaming 1 Setting	
<input checked="" type="radio"/> Basic Mode <input type="radio"/> Advanced Mode	
Resolution:	VGA - 640x480 ▼
Quality:	Medium ▼
Video Frame Rate:	10 FPS ▼
Video Format:	MPEG4 ▼
Video System:	60 Hz ▼
RTSP Path:	<input type="text"/> ex:rtsp://<<IP>>/ No Audio

1. Resolution :

There are 4 resolutions to choose.

SXGA – 1280×1024      VGA – 640×480  
QVGA – 320×240      QQVGA – 160×120

2. Quality :

There are 5 levels to adjust. The higher the quality is, the bigger the file size is.

3. Video Frame Rate:

The video refreshing rate per second

[Max 30 FPS \(10FPS at resolution 1280x1024\)](#)

4. Video Format :

There are 2 Video Formats to choose

MPEG4 or MJPEG.

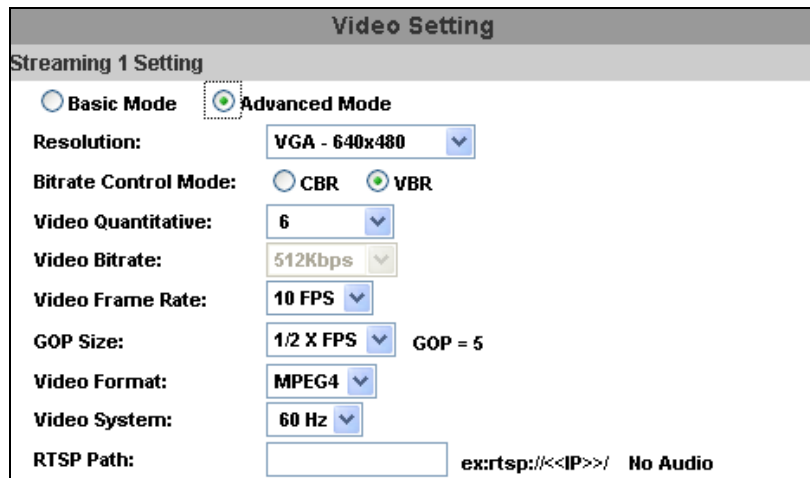
5. Video System :

Please select 60 (Hz) if you are in America, Taiwan...

Please select 50 (Hz) if you are in Europe, China...

6. RTSP Path: RTSP output name

b. Streaming 1 Advanced Mode :



**Video Setting**

Streaming 1 Setting

☐ Basic Mode ☒ Advanced Mode

Resolution: VGA - 640x480

Bitrate Control Mode: ☐ CBR ☒ VBR

Video Quantitative: 6

Video Bitrate: 512Kbps

Video Frame Rate: 10 FPS

GOP Size: 1/2 X FPS GOP = 5

Video Format: MPEG4

Video System: 60 Hz

RTSP Path: ex:rtsp://<<IP>>/ No Audio

1. Resolution :

There are 4 resolutions to choose.

SXGA – 1280×1024      VGA – 640×480

QVGA – 320×240      QQVGA – 160×120

2. Bitrate Control Mode

There are CBR ( Constant Bit Rate ) and VBR ( Variable Bit Rate ) to use.

CBR : 32Kbps~4Mbps (the higher the CBR is, the better the video quality is , vice versa)

VBR : 1~10 (Compression Rate)

3. Video Frame Rate

The video refreshing rate per second.

Max 30 FPS (10FPS at resolution 1280x1024)

4. GOP Size

It means "Group of Pictures". (The higher the GOP is, the better the quality is, vice versa)

5. Video Format : MPEG4 or MJPEG

6. Video System :

Please select 60 (Hz) if you are in America, Taiwan...

Please select 50 (Hz) if you are in Europe, China...

7. RTSP Path: RTSP output name



c. Streaming 2 Basic Mode :

(Dual Streaming is supported only when resolution is set at VGA or below)

Streaming 2 Setting	
<input checked="" type="radio"/> Basic Mode <input type="radio"/> Advanced Mode <input type="radio"/> 3GPP Mode <input type="radio"/> Close	
Resolution:	QQVGA - 160x120 ▼
Quality:	Low ▼
Video Frame Rate:	20 FPS ▼
Video Format:	MPEG4 ▼
RTSP Path:	v2      ex:rtsp://<<IP>>/v2   No Audio

1. Resolution :

There are 3 resolutions to choose.

VGA – 640x480

QVGA – 320x240

QQVGA – 160x120

2. Quality :

There are 5 levels to adjust. The higher the quality is, the bigger the file size is.

3. Video Frame Rate:

The video refreshing rate per second

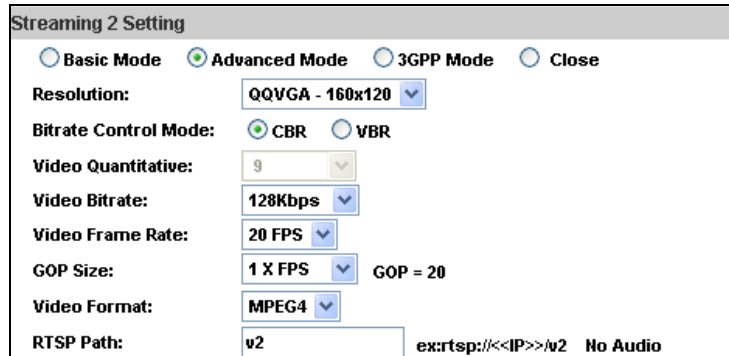
4. Video Format :

There are 2 Video Formats to choose

MPEG4 or MJPEG.

5. RTSP Path: RTSP output name

d. Streaming 2 Advanced Mode :



Streaming 2 Setting

☐ Basic Mode ☒ Advanced Mode ☐ 3GPP Mode ☐ Close

Resolution: QQVGA - 160x120

Bitrate Control Mode: ☒ CBR ☐ VBR

Video Quantitative: 9

Video Bitrate: 128Kbps

Video Frame Rate: 20 FPS

GOP Size: 1 X FPS GOP = 20

Video Format: MPEG4

RTSP Path: v2 ex:rtsp://<<IP>>/v2 No Audio

1. Resolution :

There are 3 resolutions to choose.

VGA – 640×480

QVGA – 320×240

QQVGA – 160×120

2. Bitrate Control Mode

There are CBR ( Constant Bit Rate ) and VBR ( Variable Bit Rate ) to use.

CBR : 32Kbps~4Mbps (the higher the CBR is, the better the video quality is)

VBR : 1~10 (Compression Rate)

3. Video Frame Rate

The video refreshing rate per second.

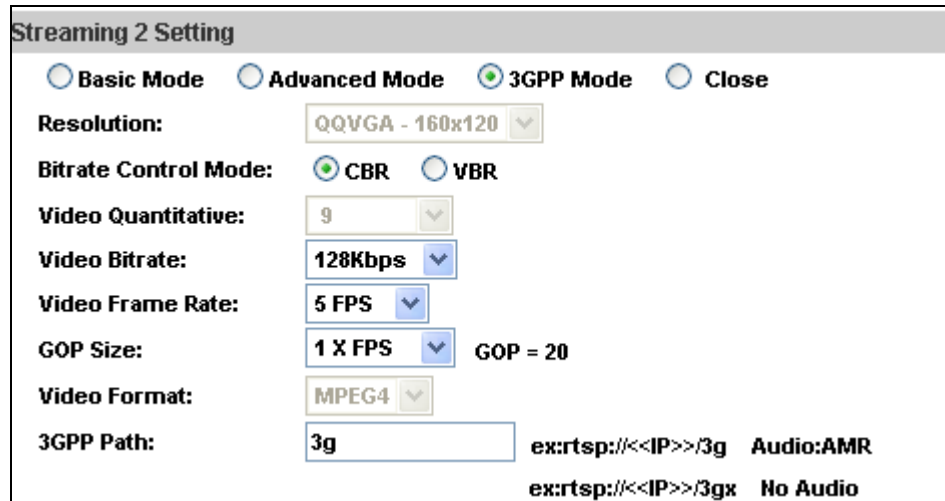
4. GOP Size

It means "Group of Pictures". The higher the GOP is, the better the quality is.

5. Video Format : MPEG4 or MJPEG

6. RTSP Path: RTSP output name

- e. Streaming 2, 3GPP mode:



3GPP default value is QQVGA , 128Kbp , 5FPS , GOP=1XFPS

3GPP mode suggested setting: QQVGA, lower than 128kbps, 5FPS, GOP= 1x FPS or 2x FPS, MPEG4 format

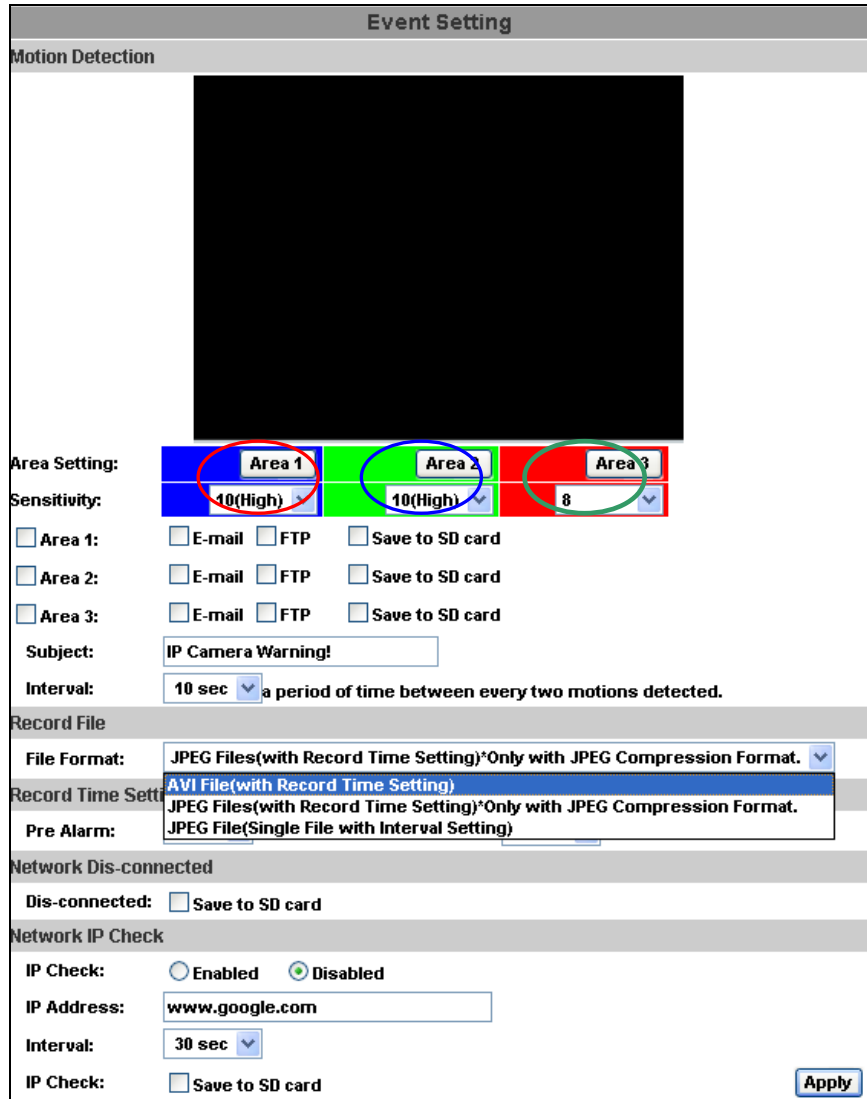
3GPP can achieve up to 10FPS, In 3GPP mode, Stream 1 & Stream 2 combined frame rate is 20FPS

1. Fix Resolution :  
QQVGA – 160x120
2. Bitrate Control Mode  
There are CBR [ Constant Bit Rate ] and VBR [ Variable Bit Rate ] to use.  
CBR : 32Kbps~320bps (the higher the CBR is, the better the video quality is)  
VBR : 1~10 (Compression Rate)
3. Video Frame Rate ( **5 FPS is recommended** )  
The video refreshing rate per second.
4. GOP Size  
It means "Group of Pictures". The higher the GOP is, the better the quality is.
5. Video Format : MPEG4
6. 3GPP: 3GPP output name

## D. Event List

IP CAMERA provides multiple event settings.

### i. Event Setting



#### a. Motion Detection

IP CAMERA allows 3 areas motion detection. When motion is triggered, it can send video to some specific mail addresses, transmit video to remote ftp server, trigger the relay, and save video to local SD card. To set up the motion area, click “Area Setting”. Using mouse to drag and set the area. The same operation for area 2 and 3.

#### b. Record File Setting: IP CAMERA allows 3 different types of recording file to change its record size.

When motion/alarm is triggered, there are 3 different types of record mode.

1. AVI File (With Record File Setting )
  2. Multi-JPEG (With Record File Setting), only with JPEG compression format.
  3. Single JPEG (Single File with Interval Setting)
- c. Record Time Setting : Pre Alarm and Post Alarm setups for video start and end time when motion detected .
- Note: Pre/Post Alarm record time is base on record time setting and IP Cam built-in Ram memory. Limited by IP Cam built-in Ram Memory, When information is too much or video quality set too high, it will cause recording frame drop or decrease on post alarm recording time.
- d. Network Dis-connected
- When the network is down, it will save the video to local SD card. This function is only enabled in wire connection.
- e. Network IP check
- For the use of recording software, IP CAMERA supports the detection of network connection. Whenever the connection is down, it records the video to SD card. To use this function, key in the IP address of the PC which is installed in the recording software, and enable the function of "Save to SD card", then click "Apply".
- The interval of two video files on SD card is fixed with 30 seconds..
- The interval of two video files recorded on SD card is fixed with 30 seconds.**

ii 、 Mail & FTP :

To send out the video via mail or ftp, please set up the configuration first.

Mail & FTP	
<b>Mail Setting</b>	
Mail Server:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="text"/>
Sender's Mail:	<input type="text"/>
Receiver's Mail:	<input type="text"/>
Bcc Mail:	<input type="text"/>
<b>FTP Setting</b>	
FTP Server:	<input type="text"/>
Username:	<input type="text"/>
Password:	<input type="text"/>
Port:	<input type="text" value="21"/>
Path:	<input type="text" value="/"/>
<input type="button" value="Apply"/>	

iii 、 SD card

Please Insert SD card before use it. Make sure pushing SD card into the slot completely.

**Note :** The use of the SD card will affect the operation of the IP CAMERA slightly, such as affecting the frame rate of the video.



a. Playback :



1. It will show the capacity of the SD card. Click the date listed on this page. It will show the list of the video.

2006/04/17			Del
Time	Video	Event Type	<input type="checkbox"/>
09:05:22	090522f.avi	Network Dis-connected	<input type="checkbox"/>
09:05:52	090552f.avi	Network Dis-connected	<input type="checkbox"/>
09:06:22	090622f.avi	Network Dis-connected	<input type="checkbox"/>
09:06:52	090652f.avi	Network Dis-connected	<input type="checkbox"/>
09:07:22	090722f.avi	Network Dis-connected	<input type="checkbox"/>
09:07:52	090752f.avi	Network Dis-connected	<input type="checkbox"/>
09:08:22	090822f.avi	Network Dis-connected	<input type="checkbox"/>
09:08:51	090851f.avi	Network Dis-connected	<input type="checkbox"/>
09:09:21	090921f.avi	Network Dis-connected	<input type="checkbox"/>
09:09:51	090951f.avi	Network Dis-connected	<input type="checkbox"/>

1 2 3 4 5

2. The video format is AVI. Click the video to start Microsoft Media Player to play it.
3. To delete the video, check the box, then click **Del**. When the SD card is full, it will remove the oldest video automatically.

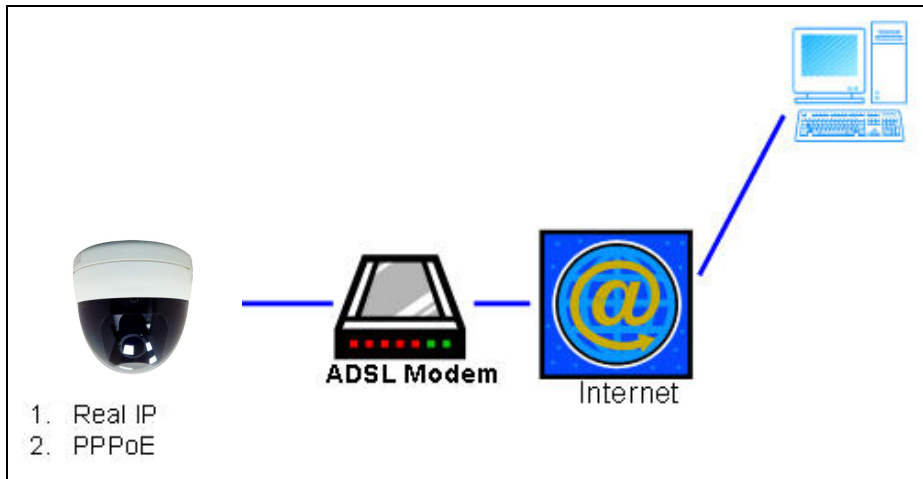
iv 、 Log List

Log List	
System Logs	<a href="#">Logs</a>
Motion Detection Logs	<a href="#">Logs</a>
I/O Logs	<a href="#">Logs</a>
All Logs	<a href="#">Logs</a>

Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.

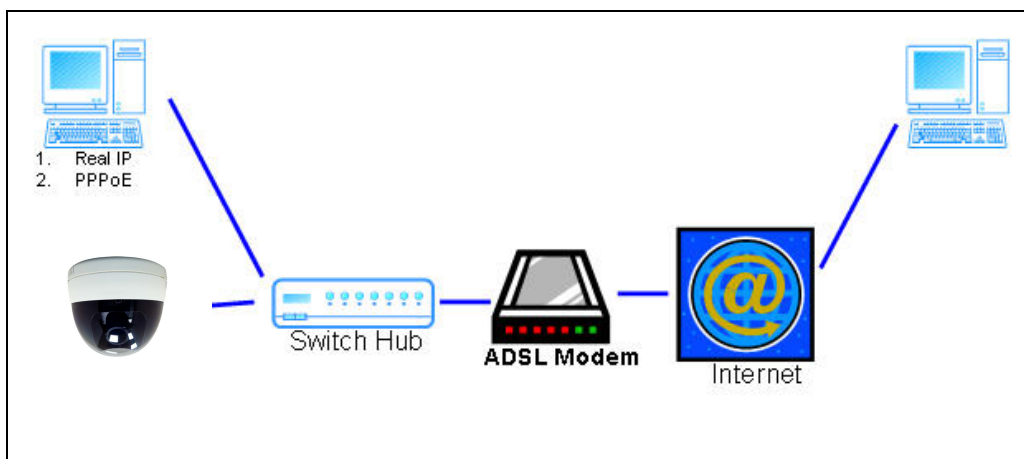
## VI. Network Configuration

### i、 Configuration 1 :



- a. Internet Access : ADSL or Cable Modem
- b. IP address : One real IP or one dynamic IP
- c. Only IP CAMERA connects to the internet
- d. For fixed real IP, set up the IP into IP CAMERA. For dynamic IP, start PPPoE.

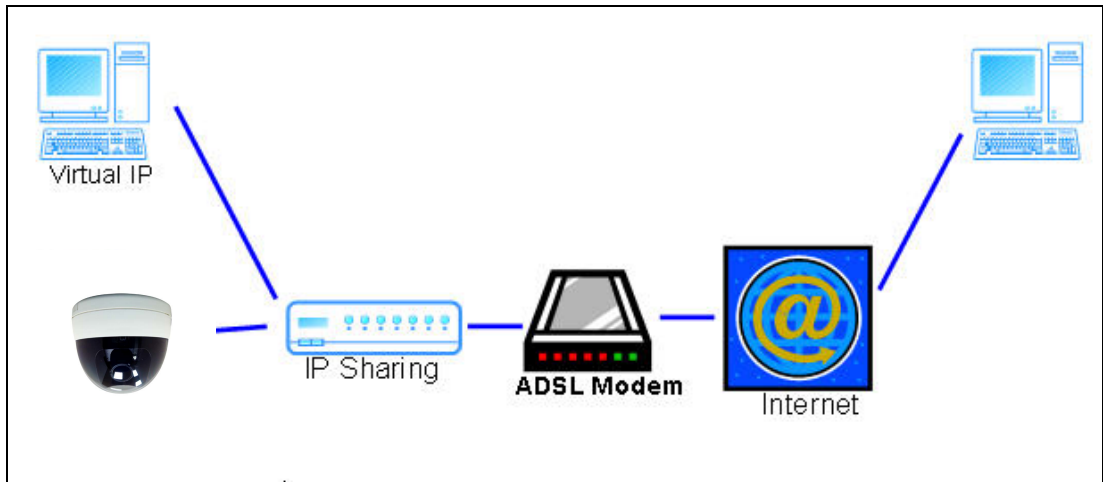
### ii、 Configuration 2 :



- a. Internet Access : ADSL or Cable Modem
- b. IP address : More than one real IP or one dynamic IP
- c. IP CAMERA and PC connect to the internet
- d. Device needed : Switch Hub
- e. For fixed real IP, set up the IP into IP CAMERA and PC. For dynamic IP, start PPPoE.



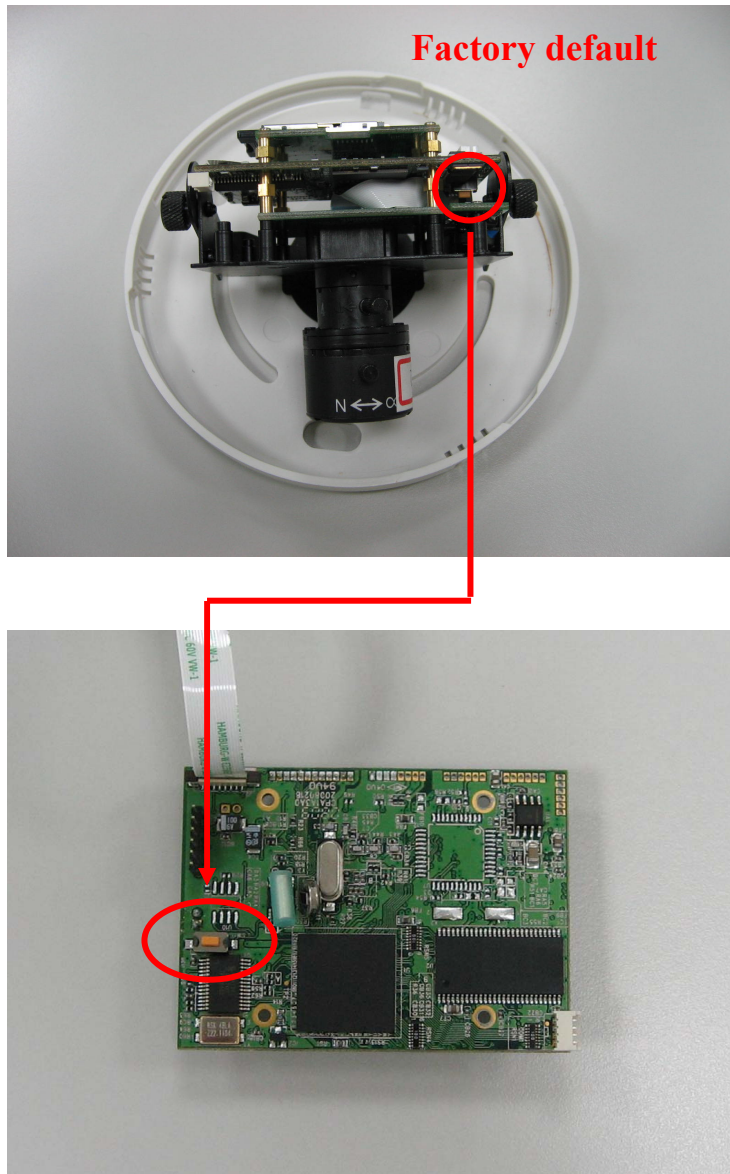
iii 、 Configuration 3 :



- a. Internet Access : ADSL or Cable Modem
- b. IP address : one real IP or one dynamic IP
- c. IP CAMERA and PC connect to the internet
- d. Device needed : IP sharing
- e. Use virtual IP, set up port forwarding in IP sharing.

## VII. Factory Default

- i 、 To recover the default IP address and password, please follow the following steps.
- ii 、 Remove power, and press and hold the button in the back of IP CAMERA.



- iii 、 Power on the camera. Don't release the button during the system booting.
- iv 、 It will take around 30 seconds to boot the camera.
- v 、 Release the button when camera finishes process.
- vi 、 Re-login the camera using the default IP (<http://192.168.1.200>), and user name (**admin**), password (**admin**).

## VIII. Package contents

- i 、 IP CAMERA Network Camera
- ii 、 Adaptor
- iii 、 Ethernet Cable
- iv 、 Quick Guide
- v 、 CD title (User manual, IP installation Utility)

## Appendix I

SD Card Recommended :

SanDisk 128M	Transcend 128M 80X
SanDisk 256M	Transcend 256M 80X
SanDisk 512M	Transcend 512M 80X
SanDisk 1G	Transcend 1G 80X
SanDisk 2G	Transcend 2G 80X
SanDisk 4G	Transcend 4G 80X